14" COLOR DISPLAY MONITOR

TC-54/7423S
IC-54/7423S
TC/IC-7423V
HC/IC-7423T

USER'S MANUAL

Thank you select our monitor for your display equipment. Please read this manual carefully before installation.

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FTZ INFORMATION

WARNING: (FOR FTZ CERTIFIED MODELS ONLY)

Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

TC-5423S IC-5423S

(Cerät, Typ, Bezelchnung)

In Übereinstimmung mit den Bestimmungen der

DBP Vfg 1046/1984

(Amtsblattverfügung)

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

CHIEN HOU ELECTRONICS CO.,LTD.

(Name des Herstellers/Importeurs)

FCC INFORMATION

WARNING: (FOR FCC CERTIFIED MODELS ONLY)

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help."

REMARKS:

TO meet FCC requirements, shielded cables and power cords are required to connect the device to a personal computer or other Class B certified device.

Informatiom to User:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

DOC INFORMATION

WARNING: (FOR DOC CERTIFIED MODELS ONLY)

DOC Compliance Statement

This digital apparatus does not exceed the class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

En Francais

Le present apparail numerique n'emet pas de bruits radioelectriques depassant les limites applicable aux apparails numeriques de la Classe B prescrites dans le Reglement sur le brouillage radioelectriques edicte par le ministre des Communications du Canada.

INTRODUCTION

BEFORE OPERATING THE MONITOR PLEASE READ THIS MANUAL THOROUGHLY THIS MANUAL SHOULD BE RETAINED FOR FUTURE REFERENCE.

THESE models separate into IC/HC/TC with different C.R.T.

C.R.T. dot pitch:

IC is 0.39mm
HC is 0.31mm
TC is 0.28mm

IC/HC-7423T, a dedicated EGA color monitor, is designed to operate with IBM or compatible EGA graphic card.

IC/HC/TC-7423P/V and TC/IC-54/7423S a dedicated VGA color monitor, is designed to operate with super VGA graphic card.

PRECAUTIONS

CAUTIONS:

1. Do not use or store this monitor in a place with much moisture or dust, or high temperature such as kitchen appliances, direct sunshine, etc.

2. Do not cover the ventilation slits while in operation. This will prevent the necessary ventilation.

3. When the monitor is not in use of for a long time, be sure to pull the power plug out of the outlet.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THE MONITOR TO RAIN OR MOISTURE.

DANGEROUSLY HIGH VOLTAGES ARE PRESENT INSIDE THE MONITOR.

DO NOT OPEN THE CABINET.

REFER SER VICING TO QUALIFIED PERSONNEL ONLY.

FEATURES

* High resolution display.
(MODEL IC-is medium, TC-is super high resolution)

* Non-glare, dark gray faced picture tube.

* Low power consumption.

* 115/230 Vac external-control on back cover with a two position slide switch.

* Light and compact , easy to carry.

* 15° tilt up/down, 90° swivel with base.

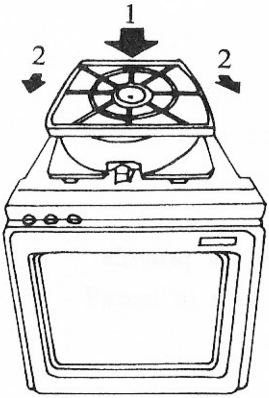
INSTALLATION

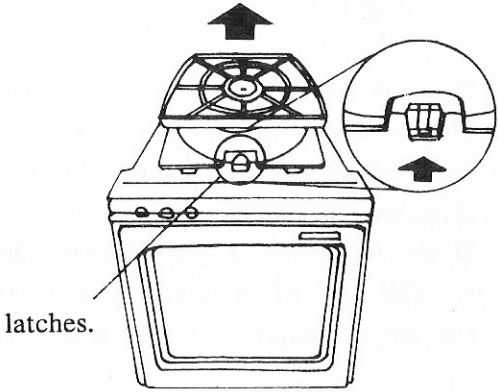
A.REMOVE OR INSTALL A TILT SWIVEL BASE

NOTE: 1. Turn off the system and all attached option.
2. Carefully set the display upside down.

REMOVING THE TILT SWIVEL BASE

1. Push the base of the tilt/swivel base to the rear of the display
2. Squeeze and hold the latches.
3. Push the tilt swivel base to the rear of the display and lift to remove the base.





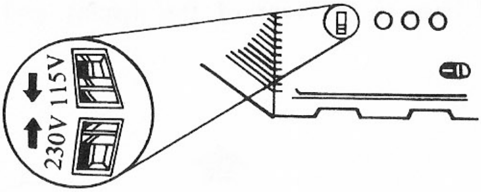
INSTALLING THE TILT SWIVEL BASE

1. Align the base with the slots in bottom of the display and insert the tilt swivel base into the slots.
2. Pull the tilt swivel base firmly toward the front of the latches click into the locked position.

B.CONNECTING THE POWER CORD:

CAUTION:

1. There is a voltage selector, which is two position slide switch, marked with 115V and 230V on the rear cabinet.
2. It is very important to ensure the correct input value before plugging the power cord into a wall AC outlet or PC'S AC outlet. AS follows:



Plug the power cord into a convenient outlet.
The three-wire power cord is a shielded type and is provided as safety precaution to ensure proper electrical grounding.
If the AC outlet in your location does not provide for this type of grounded plug, make sure to install the proper adapter for safe grounding.

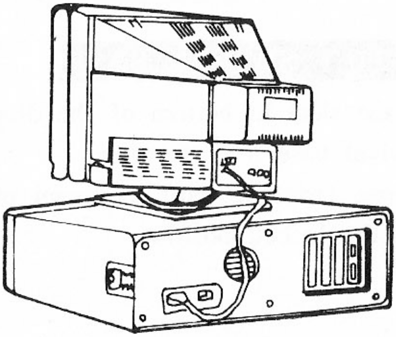


Fig. 2 System Unit Rear View.

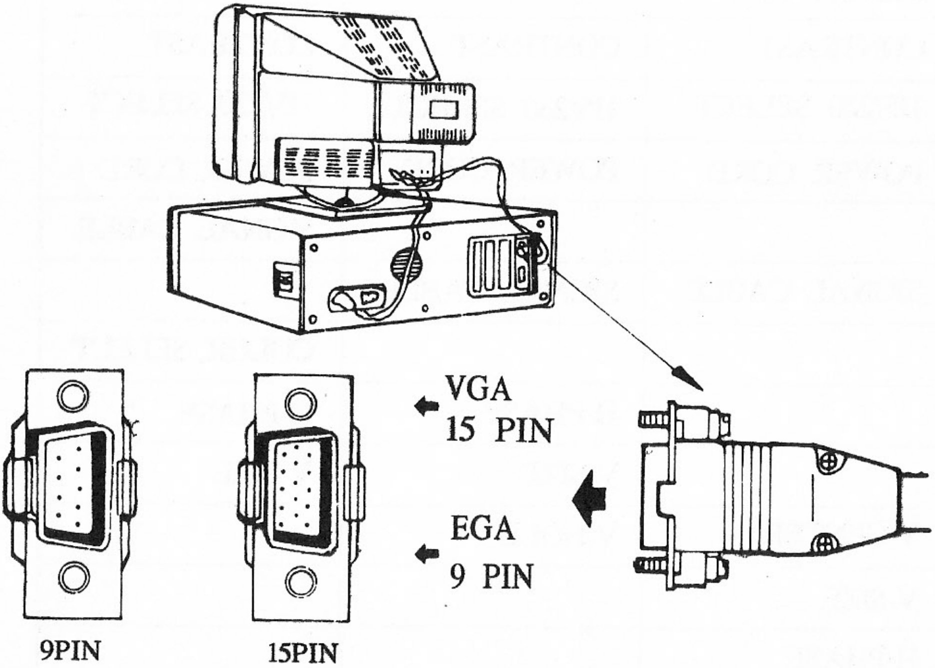
C.SIGNAL CABLE CONNECTION

IC/HC-7423T CONNECTION

Connection the 9 pin signal connector on the monitor's shielded signal cable to the fan out signal connector on the PC with EGA card.

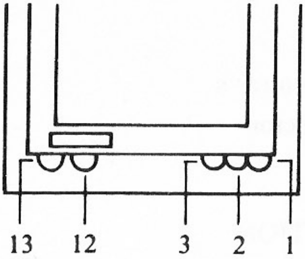
VGA IC/HC-7423P/V and TC/IC-54/7423S CONNECTION

Connect the 15 pin signal connector on the monitor shield signal cable to the fan out signal connector on the PC with VGA/8514/A card.

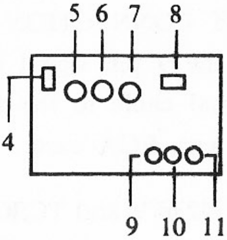


OPERATION

FRONT CONTROL



BACK CONTROL



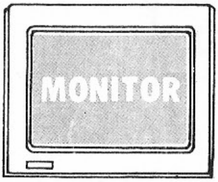
	TC/IC-54/7423S	IC/HC/TC-7423P/V	IC/HC-7423T
1	POWER SWITCH	POWER SWITCH	POWER SWITCH
2	BRIGHTNESS	BRIGHTNESS	BRIGHTNESS
3	CONTRAST	CONTRAST	CONTRAST
4	115/230 SELECT	115/230 SELECT	115/230 SELECT
5	POWER CORD	POWER CORD	POWER CORD
6			SIGNAL CABLE
7	SIGNAL CABLE	SIGNAL CABLE	
8			COLOR SELECT
9		H-PHASE	H-PHASE
10		V-SIZE	V-SIZE
11	V-CENTER	V-HOLD	
12	V-SIZE		
13	H-PHASE		

1. POWER SWITCH
   Used to push the power ON or OFF.
   When the power is ON, the LED is lit.

2. BRIGHT CONTROL
   If the picture is too bright or too dark,
   adjust the BRIGHTNESS CONTROL.

2

3. CONTRAST
   If the picture contrast is too strong or too weak,
   adjust the CONTRAST CONTROL,



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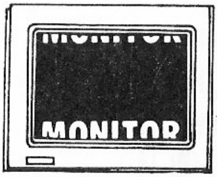
4. V-HOLD
   If the picture moves up to down. or rolls,
   adjust the V-HOLD CONTROL.



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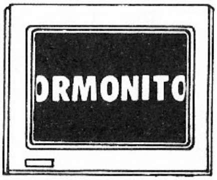
5. V-SIZE
   If the height of the picture is not suitable;
   adjust V-SIZE CONTROL.

5

6. H-PHASE or V-CENTER
   If the picture is not on the center of the screen,
   adjust H-PHASE or V-CENTER CONTROL



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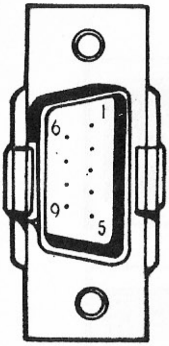
7. COLOR SELECT.
   To select AMBER, COLOR, GREEN

D-TYPE SHELL OF SIGNAL CABLE

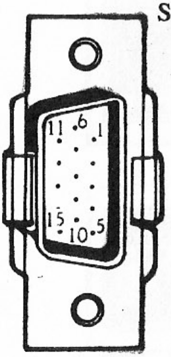
A: IC/HC-7423T (TTL COMPAITBLE)



PIN	SIGNAL	
1	GND	
2	R’	SIGNAL(GND)
3	RED	SIGNAL
4	GREEN	SIGNAL
5	BLUE	SIGNAL
6	G’	SIGNAL(INTENSITY)
7	B’	SIGNAL
8	H-SYNC	
9	V-SYNC	

B: VGA IC/HC/TC-7423P/V AND TC/IC-54/7423S (ANALOG)

Seen from front
(pin side)



PIN	SIGNAL		
1	RED SIGNAL	11	MONITOR SENS (JUMPER TO PIN 10)
2	GREEN SIGNAL		
3	BLUE SIGNAL	12	NO PIN
4	NO PIN	13	H-SYNC
5	SELF-TEST	14	V-SYNC
6	RED RETURN	15	OVERSCAN CONTROL
7	GREEN RETURN		
8	BLUE RETURN		
9	NO PIN		
10	DIGITAL GROUND		

Fig. 3 pin layout & pin Assignment Chart.

SPECIFICATION

MODEL	IC/HC-7423T	IC/HC/TC-7423P/V TC/IC-54/7423S
DESCRIPTION	DUAL FREQUENCY	DUAL FREQUENCY
SIGNAL INPUT	DUAL FREQUENCY TTL COMPATIBLE MODE (1) R.G.B.R.G'.B' HOR, VERT SYNC MODE (2) R.G.B. INTENSITY HOR, VERT SYNC	ANALOG R.G.B. HOR. SYNC (TTL LEVEL) VERT SYNC (TTL LEVEL)
SCAN FREQUENCY	MODE (1) HOR: 21.85 KHZ (POSITIVE) VERT: 60 HZ (NEGATIVE) MODE (2) MOR: 15.75 KHZ (POSITIVE) VERT: 60 HZ (POSITIVE)	MODE (1): H: 31.5KHZ (P) V: 70HZ (N) MODE (2): H: 31.5KHZ (N) V: 70HZ (P) MODE (3): H: 31.5KHZ (N) V: 60HZ (N) MODE (4): H: 35.5KHZ (P) V: 55HZ (P) MODE (5): H: 35.5KHZ (P) V: 87HZ (P)
VIDEO RESPONSE	25MHZ (-3dB)	30MHZ (-3dB)
CONTROLS (INSIDE FOR SERVICE)	21K, 15KB+:21K, 15KH-HOLD V-CENT: U-LIN: PINCUSHION H-CENT: H-WIDTH: SUB-BRIGHT R.B.R'.B'-DRIVER: R.G.B.-BIAS FOCUS: SCREEN	B+:H-HOLD (1), (2): H-CENT H-PHASE: H-WIDTH: V-LIN V-CENT: V-SIZE (1), (2), (3) R.G.B-DRIVER: R.G.B.-BIAS SUB-BRIGHT: FOCUS: SCREEN PIN-CENT: PIN-CORNER
POWER SOURCE	AC110V/60 HZ OR AC220V/50HZ	AC110V/60HZ OR AC220V/50HZ
POWER COMSUPTION	70W (MAX)	70W (MAX)
DIMENSIONS (W×H×D)	APPROX: 360×384×370MM 360×324×370 (WITHOUT BASE)	APPROX: 360×384×370MM 360×324×370 (WITHOUT BASE)
CARTON DIMENSIONS	APPROX: 425×445×440MM	APPROX: 425×445×440MM
NET WEIGHT	APPROX: 11KG	APPROX: 11KG
RESOLUTION	15K: 640×200 21K: 640×350	640×350,640×400,640×480 35K: 800×600 1024×768 (INTERLACE)

ATTACHMENT

DEGAUSSING

When poor color purity appears on the screen. The most reason is CRT shadow mask affected by earth's magnetic field. The second reason is affected by the peripheral parts like magnetic materials, motor, and trabsformer.

Degaussing is required when poor color purity appears on the screen. This monitor uses an automatic degaussing circuit that is activated after power on about 1-2 seconds.

The degaussing effect is confined to CRT since the degaussing coils are moun' at the back of CRT. Should any part of the chassis or cabinet become magnetized, it will be necessary to degauss the affected areas through the manual degaussing coil.

NOTE:

1. The recover time of the magnetic circuit needs about 3-15 minutes when power is off. Until you wait more than 15 minutes, you could start again and the automatic degaussing will be fully functional.

2. For manual degaussing:You must use a degausser and move it in a rotary motion over the front, sides, and top of the onitor. For proper degaussing, it is essential that the field be gradully reduced by slowly moving the degausser away from the monitor. The degausser must never be shut off or disconnected while near the monitor, for this would introduce a strong field instead of cancelling the effect of the stray fields.

3. Magnetic Field's Explanation of Nameplate

   The monitor will appear "S.M.F" on the nameplate. It means simulation of magnetic field. The magnetic field area (see index of ∗) follow it show up, that assist you understand where to be used of the monitor. If you used in the other magnetic field, the picture will be distorted or tilted by the magnetic field, and color purity will poor.

* THE N. HEMISPHERE	(used in the north hemisphere)
* THE EQUATOR	(used in the equator)
* THE S. HEMISPHERE	(used in the south hemisphere)